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Week Ending June 17, 1972

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE WHEALTH SERVICES AND MENTAL HEALTH ADMINISTRATION

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Quarantine Measures

EPIDEMIOLOGIC NOTES AND REPORTS PROBABLE BOTULISM - Northwestern Ohio

On April 27, 1972, a 32-year-old man in northwestern Ohio experienced dizziness, headache, difficulty breathing, and difficulty swallowing solid foods. He was seen at the emergency room of a local hospital but was felt to be experiencing hysterical complaints and was advised to return home. Twelve hours later, he returned to the emergency room with marked difficulty breathing. He suffered a respiratory arrest, was successfully resuscitated, and was admitted to the intensive care unit. The patient remained apneic but alert until May 3, when he suffered a cardiac arrest. He was resuscitated but did not regain consciousness. On May 8, the diagnosis of botulism was considered, and the patient received five vials of trivalent botulism antitoxin over the next 3 days. He failed to respond, however, and died on May 16.

On April 29, the patient's 29-year-old wife vomited while visiting her husband at the hospital. The following day

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she awoke with dizziness, a heaviness of her head and neck, difficulty raising her eyelids, difficulty swallowing and speaking, and trouble breathing. She visited the emergency room of the same hospital, but was also felt to be experiencing hysterical complaints and was advised to return home. By May 1, her symptoms had become more severe, and she was admitted to the hospital. Positive findings on physical examination were restricted to sighing and irregular respirations; no specific mention of cranial nerve function was made. The patient experienced increasing difficulty breathing, and on

TABLE I. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES (Cumulative totals include revised and delayed reports through previous weeks)

The second of the second of the second	24th WEE	K ENDING	MEDIAN	CUMULA	TIVE, FIRST 24	WEEKS	
DISEASE	June 17, 1972	June 19, 1971	MEDIAN 1967-1971	1972	1971	MEDIAN 1967-1971	
Aseptic meningitis	44	58	58	883	1,139	755	
Brucellosis	8	3	4	70	72	80	
Chickenpox	3,267	9111	2-2	101,343		(10) 7 7 7 2	
Diphtheria Encephalitis, primary:	m marinni	1/	(1-7 (0) 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	50	80	80	
Arthropod-borne and unspecified	18	26	26	378	529	484	
Encephalitis, post-infectious	7	11	8	133	164	219	
Hepatitis, serum (Hepatitis B)	150	168	134	4,375	3,952	2,423	
Hepatitis, infectious (Hepatitis A)	982	1,094	895	26,235	28,558	21,914	
Malaria	9	50	42	570	1,683	1,202	
Measles (rubeola)	800	2,111	1,241	23,473	61,175	34,440	
Meningococcal infections, total	19	25	41	763	1,441	1,470	
Civilian	19	24	39	730	1,263	1,322	
Military		1	1	33	178	151	
Mumps	1,339	2,585		49,533	88,299		
Rubella (German measles)	504	1,089	1,644	18,353	33,599	37,756	
Tetanus	3	4	3	43	45	53	
Tuberculosis, new active	649			15,196	15		
Tularemia	3	3	3	48	45	67	
Typhoid fever	13	8	8	142	122	127	
Typhus, tick-borne (Rky. Mt. spotted fever) Venereal Diseases:†	29	28	14	118	91	89	
Gonorrhea	16,411	11,783		317,679	280,863		
Syphilis, primary and secondary	501	436	FORLER LINE	11,100	10,737		
Rabies in animals	77	76	64	2,054	2,142	1,772	

TABLE II. NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum.	and the sense of according to the first of the sense of the	Cum.
Anthrax: Botulism: Congenital rubella syndrome: *	-	Poliomyelitis, total: Paralytic: Psittacosis:	5 5 14
Leprosy: Calif. – 1, Tex. – 1, Va. – 1 Leptospirosis:	49 8 1	Rabies in man: Trichinosis: NYC — 1 Typhus, murine:	1 39 8

^{*}Delayed report: Congenital rubella syndrome: Wis. 1

BOTULISM - Continued

the morning of May 3, she was found dead in bed.

On April 27, the 56-year-old uncle of the first patient had onset of nausea, vomiting, diarrhea, blurred vision, and difficulty swallowing solid foods. Over the next 2 days, difficulty speaking, double vision, dry mouth, dizziness, and severe constipation developed, and he was hospitalized. During his first week in the hospital, the patient's condition remained stable. The diagnosis of botulism was considered on May 9, and he received one vial of trivalent botulism antitoxin and an additional vial the next day. His symptoms and signs gradually improved over the ensuing week.

Blood specimens were obtained on May 8 from both male patients. The uncle's serum was non-toxic to mice. The nephew's serum was toxic to mice, but was not specifically neutralized by botulism antitoxin.

The three patients had shared no meals in common in the month preceding their illnesses. However, the uncle had visited the home of the first two patients on April 22 and had shared a meal with other persons who lived there. The meal consisted of hamburger, commercially canned corn, rice, and home-canned pickled peppers. All 12 persons at the meal ate meat, rice, and corn, but only the uncle and another nephew ate any peppers. The uncle ate one whole pepper; the nephew tasted a small portion of one and subsequently experienced constipation and intermittent visual blurring for about 3 days. None of the other members of the household became ill. The first two patients had returned home the night of April 22 and reportedly ate some of the remaining peppers over the next 5 days.

The peppers had been home-canned by a friend of the family in July 1971. Of the original 12 jars, six had been consumed without ill effect. The remaining contents of the suspect jar were not available for laboratory study. The other five unopened jars were analyzed, and no botulinum toxin was found.

(Reported by George D. Ludwig, M.D., Professor and Chairman, Roberto Franco, M.D., Assistant Professor, Department of Medicine, Hospital of the Medical College of Ohio; Robert N. Baker, D.V.M., Chief, Consumer Health Protection, Toledo City Health Department; Robert Bowman, Chief Sanitarian, Lucas County Health Department, Ohio; Ralph Masterson, D.V.M., Chief, Epidemiology Section, Communicable Disease Division, Ohio Department of Health; Roger E. Kline, Inspector, John Feldman, Acting Deputy Regional Food and Drug Director, Food and Drug Administration; the Enterobacteriology Unit, Laboratory Division, and the Bacterial Diseases Branch, Epidemiology Program, CDC.)
Editorial Note

Botulism should be suspected in persons presenting with symmetrical descending bulbar and skeletal muscle paralysis without sensory component or fever. Impairment of voice and vision are especially important in the clinical evaluation.

Although botulinum toxin was not specifically identified in any of the specimens examined, the clinical and epidemiologic features of this outbreak strongly suggest botulism. The negative and equivocal laboratory findings may have been because the patients' specimens were obtained late in the course of illness. It is not unusual for only one container in a given lot to be contaminated with botulinum toxin.

POWASSAN ENCEPHALITIS - New York

On July 30, 1971, a 7-year-old boy was admitted to a hospital in Albany, New York, after having had three generalized seizures. Physical examination revealed blood pressure 104/68, pulse 132/minute, respiratory rate 24/minute, and temperature 101°F. The patient was stuporous on admission. The only physical abnormalities were bulging erythematous tympanic membranes and hypoactive deep tendon reflexes.

On August 1, he was noted to have meningismus. The patient remained lethargic but had no further seizures. An electroencephalogram (EEG) on August 3 was markedly abnormal with generalized high amplitude slowing in the 1-1½ cycles-per-second frequency range. His rectal temperature remained elevated to 103-104°F. until August 4 when a hypothermic blanket was used. On August 10, he became afebrile and started to respond to vocal stimulation. An EEG on August 19 was still grossly abnormal, with no significant change from that on August 3. The patient was discharged on August 20. A follow-up EEG on December 17 showed no definite abnormalities.

No pathogenic agents were isolated from throat and rectal swabs taken on August 5. Cerebrospinal fluid (CSF) taken on July 30 was negative for infectious agents; however, ECHO virus type 6 was isolated from a CSF specimen obtained on August 6. Hemagglutination-inhibition and complement fixation tests were performed on three serum samples using the following antigens: Eastern Equine Encephalomyelitis, Western Equine Encephalomyelitis, St. Louis Encephalitis, Powassan (POW), Cache Valley, and California Encephalitis. The sera reacted only with POW antigen. Neutralizing tests for POW antibodies were subsequently performed. The results indicated active infection with POW virus (Table 1).

Although serologic tests using ECHO virus antigens were all negative, the isolation of ECHO virus type 6 from the CSF suggests that the patient may have experienced simultaneous or closely-spaced infections with POW and ECHO 6 viruses.

Eight days prior to his hospitalization, the patient had been bitten on the neck by a tick. There was no history of head trauma or epilepsy.

(Reported by Peggy A. Hanson, M.D., Associate Professor of Pediatrics and Neurology, Albany Medical Center, New York; Thomas F. Bast, Ph.D., Associate Medical Entomologist, Jorge L. Benach, Ph.D., Medical Entomologist, Bureau of Acute Communicable Disease Control, Elinor Whitney, Senior Research Scientist, Division of Laboratories and Research, Rudolf Deibel, M.D., Director of the Virus Laboratory, Victoria L. Smith, M.D., Public Health Physician, Alan R. Hinman, M.D., Assistant Commissioner for Epidemiology and Preventive Health Services, New York State Department of Health.)

Table 1
Serologic Test Results for Powassan Virus
Albany, New York — 1971

	Date S								
RISCH STREET	7-29-71	8-4-71	9-10-71						
Complement Fixation Hemagglutination	4	Not Tested	16						
Inhibition	Not Tested	20	80						
Log ₁₀ Neutraliza- tion Inhibition	Not Tested	3.2	5.2						

Editorial Note

Powassan virus was first isolated in 1958 from a fatal human case in Ontario, Canada (1). This case of POW encephalitis is the third recorded in North America and the first in New York. POW virus is a member of the tick-borne encephalitis complex (Russian Spring-Summer Complex) of Group B

arbovirus (2).

References

- 1. McLean DM, Donohue WL: Powassan virus. Isolation of virus from a fatal case of encephalitis. Can Med Assoc J 80:708-711, 1959
- 2. Casals J: Antigenic relationship between Powassan and Russian Spring-Summer encephalitis viruses. Can Med Assoc J 82:355-358, 1960

RECOMMENDATION OF THE PUBLIC HEALTH SERVICE ADVISORY COMMITTEE ON IMMUNIZATION PRACTICES

INFLUENZA VACCINE

INTRODUCTION

Influenza occurs in the United States every year, but the incidence and geographic extent vary widely. Periodically, it appears in epidemic form as a result of antigenic variation in prevalent viruses and the relative susceptibility of the population. Both type A and type B influenza viruses undergo antigen changes. Such changes usually occur slowly, but occasionally they are rapid and abrupt. Epidemics caused by type A influenza viruses occur more frequently and are generally more severe than those caused by type B.

The effectiveness of inactivated influenza vaccines* has been variable, and protection has been relatively brief. This has contributed to recommendations only for selective use in persons at high-risk. Vaccine for 1972-73 has more antigen than prior products and should give better results. It should be given to chronically ill patients and possibly to older persons in general. These two groups appear to be more vulnerable than others to serious cases of influenza and its complications. Because some influenza occurs each year, annual immunization of "high risk" patients is indicated as a routine procedure regardless of the amount of influenza expected in any specific geographic area.

INFLUENZA VIRUS VACCINES

The Division of Biologics Standards reviews influenza vaccine formulation regularly and recommends reformulation, when indicated, to include contemporary antigens. The influenza vaccine this year is different from that available in 1971-72. Although the type A strain present in 1971-72 is retained, its potency has been increased from 400 to 700 chick cell agglutinating (CCA) units. A more current type B strain replaces that in the 1971-72 formulation. Each adult dose of 1972-73 vaccine contains a total of 700 CCA units type A [A/Aichi/2/68(H3N2)] ** and 300 CCA units type B (B/Massachusetts/1/72). Doses for children are specified in the manufacturers' package labeling. Vaccines from all producers are of the highly purified variety and should be less often associated with adverse reactions than the previous influenza vaccines.

VACCINE USAGE

General Recommendations

Annual vaccination is recommended for persons of all ages who have chronic debilitating conditions: 1) congenital and rheumatic heart disease, especially with mitral stenosis, and arteriosclerotic and hypertensive heart disease, particularly with cardiac insufficiency; 2) chronic bronchopulmonary dis-

*The official name of the currently available product is Influenza Virus Vaccine, Bivalent.

eases, such as asthma, chronic bronchitis, cystic fibrosis, bronchiectasis, emphysema, and advanced tuberculosis; 3) diabetes mellitus and other chronic metabolic disorders.

Although the value of routinely immunizing all older age persons is less clear, those patients who have incipient or potentially chronic disease, particularly affecting cardiovascular and bronchopulmonary systems, should also be considered for annual immunization.

Immunizations of persons who provide essential community services may also be considered if local priorities justify. However, before undertaking such programs, responsible physicians must take into account a number of reasonable constraints: difficulties inherent in predicting influenza epidemics, variability of vaccine effectiveness, incidence of adverse side effects, cost, availability of vaccine, and risk of diverting vaccine from those with chronic debilitating conditions who are at risk.

Schedule

The primary series consists of 2 doses administered subcutaneously, preferably 6-8 weeks apart. (Dose volume for adults and a detailed schedule for children are specified in the manufacturers' labeling.) Persons who have had 1 or more doses of vaccine containing the Hong Kong strain antigen (all influenza vaccines since 1968-69) need only a single subcutaneous booster dose of bivalent vaccine. All others should receive the full primary series. Vaccination should be scheduled for completion by mid-November.

Precautions

Influenza vaccine is prepared from viruses grown in embryonated eggs and ordinarily should not be administered to persons clearly hypersensitive to egg protein, ingested or injected.

Selected Bibliography

Center for Disease Control: Influenza-Respiratory Disease Surveillance Rep No. 87, Dec 1971

Eickhoff TC: Immunization against influenza: Rationale and recommendations. J Infect Dis 123:446-454, 1971

Eickhoff TC, Sherman IL, Serfling RE: Observations on excess mortality associated with epidemic influenza. JAMA 176:776-782, 1961

Francis T Jr: Epidemic influenza: Immunization and control. Med Clin North Am 51:781-790, 1967

International Conference on Hong Kong Influenza. Bull WHO 41:335-748, 1970

Kilbourne ED: Influenza 1970: Unquestioned answers and unanswered questions. Arch Environ Health 21:286-292, 1970

Kilbourne ED: Influenza: The vaccines. Hospital Practice 10:103-114, Oct 1971

Langmuir AD, Henderson DA, Serfling RE: The epidemiological basis for the control of influenza. Am J Public Health 54:563-571, 1964

Stuart-Harris CH: Influenza and Other Virus Infections of the Respiratory Tract. 2nd Edition, Baltimore, Williams and Wilkins, 1965

World Health Organization: A Revised System of Nomenclature

for Influenza Viruses. Bull WHO 45:119-124, 1971

^{**}The World Health Organization has recommended a revised system of nomenclature for type A influenza viruses which includes their strain designation and a description of the two surface antigens, hemagglutinin (H) and neuraminidase (N).

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES FOR WEEKS ENDING JUNE 17, 1972 AND JUNE 19, 1971 (24th WEEK)

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*Delayed reports: Aseptic meningitis: Ariz. delete 1

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Hepatitis A: Me. 2, N.H. delete 1, W. Va. delete 1, Ariz. 1, V.I. 1

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES FOR WEEKS ENDING JUNE 17, 1972 AND JUNE 19, 1971 (24th WEEK) — Continued

STATE AND ADDRESS OF THE PARTY	MAL	ARIA	МЕ	ASLES (Rube	eola)	MENINGO	COCCAL IN TOTAL	FECTIONS,	MUMPS		RUBELLA	
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The state of the s	1972	1972	1972	1972	1971	1972	1972	1971	1972	1972	1972	1972
UNITED STATES	9	570	800	23,473	61,175	19	763	1,441	1,339	49,533	504	18,353
EW ENGLAND		13	117	2,505	3,025	- 1	33	65	90	2,069	22	847
Maine *	7-0	3	11	221 206	1,381 176		3 2	10	5 4	163	1	62
New Hampshire	120	3	5	103	100			10	1	98	1	64
Massachusetts*	-101	5	51	481	205	1 22	17	26	14	509	5	40
Rhode Island			13	486	210	-	9	2	7	338	4	76
Connecticut	- 14-	5	37	1,008	953	7 -	2	20	59	734	11	20
IDDLE ATLANTIC	2	42	16	820	6,671	1	92	187	108	2,404	19	1,600
Upstate New York	-100	7	4	112	487		22	47	NN	NN	9	19:
New York City	-100	6	8	194	3,351	-	27	39	69	1,184	4	16
New Jersey *	1	13	2	465	1,080	1	20	46	30	627	5	1,01
Pennsylvania	1,77	16	2	49	1,753	419-	23	55	9	593	1	24
AST NORTH CENTRAL	1	54	342	9,557	13,194	1	101	155	363	13,703	128	4,95
Ohio	1 15 4	8	2	217	3,520	H-1-1	36	44	35	1,933	18	35:
Indiana	-81	1	21	1,145	2,422	-14-	10	11	18	872	13	55
Illinois	- 18	19	118	3,537	2,614		24 27	46	53 66	2,465	27 32	1,15
Michigan		24	58 143	1,665	1,805 2,833		4	10	191	2,388 6,045	32	1,97
			- 11							-		
EST NORTH CENTRAL	1-545	39	3	897	5,986	4-7	60	118	27	7,997	6	1,219
Minnesota		4	3	16 637	51 2,188		13	19	3 10	5,600	1	37
Iowa		10	3	153	2,100		18	43	11	406	2	9
North Dakota	11-17-	1		48	205		_	5	1	291	11 -01	2
South Dakota	11-1211	4	- -	4	198		2	5	2	109	1-0	1:
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Kansas	1-44	14	11-	21	1,059		16	25	40 1	698	-	19
OUTH ATLANTIC	1-4	79	36	1,886	6,348	9	173	236	94	4,321	20	1,30
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Virginia		1		210	429		6	5		2,113		34
North Carolina	14- SET	33	- 1	28	1,832	1	24	38	NN	NN	2	2
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Florida	11-011	10	31	1,197	1,497	1 =	45	89	48	978	15	744
AST SOUTH CENTRAL	- 178	157	5	967	7,753	1	60	130	63	2,563	63	1,381
Kentucky	+ - 400	138	4	484	3,727		20	37	13	404	39	801
Tennessee	- 152	- CI		183	930	1 10 m (4)	22	48	42	1,608	8	439
Alabama	- 19	15	1	127	1,720	1	12	26 19	1 7	106	14	104
Mississippi	11- 65	4		173	1,376		0	19	1	100	14	10.
VEST SOUTH CENTRAL	1 -	63	30	1,286	11,770	2	93	125	164	4,075	88	1,30
Arkansas	1 - 401	4		12	760		8	5	1 1	153	-	2
Louisiana *	- (80	4	8 17 3	79	1,602	1 1	28	43	8	240	4	8
Oklahoma	15 33	3 52	30	1,186	736 8,672	1	51	71	155	153 3,529	88	1,16
Name and Advanced to the Control of	1 30		30	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0,072		,	1		3,525		,,,,,,,
OUNTAIN	- 190	39	60	1,629	2,869		13	44	86	2,583	27	97
Montana	- 11	2		12	901	-41- 21	2	3	-	149	-	2
Idaho	11-53	3	1 _	18 45	233 83	7 7	3	6 2	1	185 218	1	2
Wyoming	1019	26	14	484	774		2	7	25	688	6	50
New Mexico	100	1 -	3	101	278		0001111	3	20	512	1-19-10	7
Arizona *	- 113	5	42	817	336	- "	1.50	8	31	679	16	31
Utah	1 7	1	1 - 1	152	261	-	2	12	7	107 45	4	2
Nevada	- 415	3 1		_	3			3	1 5	45	7 7	
ACIFIC	6	84	191	3,926	3,559	4	138	381	344	9,818	131	4,76
Washington	1 - 74	7 1	50	933	847	-	11	18	48	3,433	11	80
Oregon	1 5	9	13	57	329	7	11	27	44	1,227	115	31
California	5	64	128	2,837	2,116 51	4	108	331	250	4,907 94	115	3,57
Hawaii	100	9		88	216	_	3	5	2	157	-	4
33 34 1 2 2									- Tarif 1	100		15.7%
uam	127	2	11-1	2			11		tejy Lt	2	_	
uerto Rico	11- 60	3	41	473	311	- 12 m	4	2	51	569	-	1
irgin Islands *				1	8	-	2		_	123	_	60 Ch. Li

Delayed reports: Measles: Me. 2, Mass. delete 1, Ariz. 17, Alaska 6 Meningococcal infections: N.J. delete 1

Mumps: Me. 1, S.C. 2, La. delete 1, Ariz. 3, V.I. 6 Rubella: Me. 2, Ariz. 3, Alaska 2

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES FOR WEEKS ENDING JUNE 17, 1972 AND JUNE 19, 1971 (24th WEEK) — Continued

n.Comit.	district.	TB	SECO ICE	07177	ТҮРІ	1010		FEVER	VENEREA	L DISEASES	PAR	IES IN
AREA	TETANUS	(New Active)	TULAR	REMIA	FEV			BORNE potted fever)	GONOR- RHEA	SYPHILIS (Pri. & Sec.)		MALS
110 TAN 150	1972	1972	1972	Cum. 1972	1972	Cum. 1972	1972	Cum. 1972	1972	1972	1972	Cum 197
UNITED STATES	3	649	3	48	13	142	29	118	16,411	501	77	2,05
NEW ENGLAND		26	2 - 60		150	6	17X	1 -11	520	4	2	7 5
Maine		1	7.1	100	100	1	450		21 14			
Vermont	5-3	1	1 - 0		- - er(N/ED	-		18	- 1		
Massachusetts	-51	13	-31	-	1 - T	3	- P	-	303	1 1	2	
Rhode Island	-81	6 4	-		1 12	2	- 6	-	29 135	1 3	- le	
IIDDLE ATLANTIC		151	1.7	1	100	29	6	9	2,347	105	4	
Upstate New York	- 0	35	- 10	_ - -	-	9	3	3	506	8	3	2
New York City	3-14-	56			1,54,3	16	-	11-3	1,181	79	TT 480	
New Jersey	- 14	20 40	1 200	1	1 775	3 1	1 2	2	278 382	17	1	2
	1	79		1	-07.1	12	2	6	1,575	19	9	21
AST NORTH CENTRAL Ohio *	1 1 1	28		1	- 50 V	5	2	6	677	4	2	1
Indiana	-11	6	- 1997	_	122	-	- 100	-	182	1	2	
Illinois	116	- 11	1 - 17	-	-18	2	- 1	1) - 11	62	6	1	3
Michigan	1.1	34 11	1	1 - 1	-CI.	4	计记器	1135	543 111	7 1	_ 4	
										6		
EST NORTH CENTRAL	1 = 10	28 10	2	10	-	4	1 -	2	947 160	8	22	11
Minnesota	7	1		- 13 6	361	I I Ex			126	2	15	15
Missouri	4-11	6	2	10	1 -31	3	1 1 -	1100	260	2	1	- 4
North Dakota	1-2				435	_		- 1.	11 -	-	3	
South Dakota		4	- 2	- X	1 -215		-	- N	22	-	- 1	di 60
Nebraska Kansas	7 - 7	3 4	3 = 30	- 1	1.73	1	=	1	104 264	2 2	3	5
	1	97	1_	6	100	18	14	69	5,235	196	5	Tract15
DUTH ATLANTIC	1 1	-	J = 67	_		-	1 12 3	-	56	- 1	_	100
Maryland	4 - 44	13	1-113		-112	2	1	13	304	13		10000
District of Columbia		-1	- 1 - u		144	2		1 - 1	207	19	200 - Part	
Virginia	- 46	15	1 - 1 - 1/2	4	1 + EQ.	6	2	17	359	41	1	T/S
West Virginia North Carolina *		14	1	1 - 2	-26%	1	11	_ 29	443	7	na -sila	
South Carolina *	1	12	- 101		1110	133	1- 1	6	1,505	12		
Georgia		29 26	- 1	1	1.01	1 5	1 - 7	4	1,518 843	70 34	3 1	100
AST SOUTH CENTRAL Kentucky	- 50	60 24	1.73	3	1 - 3736	12	4	14	1,273	24	12 7	16
Tennessee	7 1 - En	19	1 - 5	2		3	4	13	457	111	5	22
Alabama	1 - 1	9	- 15	1	-85	1 26		1 1 13	382	-	_	- 4
Mississippi	7-5	8	- (- 34	• =	-//3-	5	- 4	- 7	295	9	-	No.
EST SOUTH CENTRAL	1 1	61	1 (2	24	5	19	2	18	1,645	50	17	44
Arkansas	1	8 21		15 1	1.55	6		3	104 333	25	3 1	6
Oklahoma	A112	10	1	5	100	1	2	13	147	4	10	19
Texas	E - L	22	1-8.90	3	4	8	- 8	2	1,061	20	6	1
OUNTAIN		35	1 6	2	-141	3	1 - 12		588	11	1	man=
Montana	- 1	7-8			. 1-19	1 -	-	J - U	15	-	4 -	
Idaho	- I- I	1	- 1	-	1-34	-	-		53	-	-	
Wyoming		2 5		1	120	120			129	4	5.5	
New Mexico		14			_ Est	1		1 - 7	148	2		-
Arizona *	1 - 5	13	- 1	1	-10.0	1	- 10		140	2	1	
Utah	1128.	17.35	1-95	-	- 12	1	-	L- 1	27 73	2 1		
Nevada							100	3	100			
ACIFIC		112 3	= -	1 1	5	39 2	분내트 월	1 - 1 - 2	2,281	84	5	1:
Oregon	24 I - SQ	12	1-4-11	-	-BE	1 1 7	 	1	114	2	-	-
California	22 - page	94		1 6	5	34	- 20	- 7	1,860	77	4	1.
Alaska		3	-	1	-	3	-	-	43	1 2	=	
	44.5	2	1 = 1_ 1 7 8		-		1	-	8	_	+	
uam		11		2 5-	i la Traga	4	((T)	3 - 6	29	33	1	
irgin Islands	-0-0	4-30	2	<u>□</u> ,536	1126		-		1 1 -	4	- 2	10000

*Delayed reports: Tuberculosis: Ohio delete 3, N.C. delete 1, Ariz. delete 1 Gonorrhea: N.H. 2, N.C. 200, La. delete 6 Rabies in animals: S.C. 8, Ariz. 1

TABLE IV. DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDING JUNE 17, 1972

Week No.

(By place of occurrence and week of filing certificate. Excludes fetal deaths)

	743/5	All Causes		Pneumonia			All Causes		Pneumonia
Area			Under 1 year	and Influenza All Ages	Area	All Ages	65 years and over	Under 1 year	and Influenza All Ages
Blanch Coll Co.		M. Chin	Aurilia.	ar again	SOUTH ATLANTIC	1,185	611	56	36
EW ENGLAND	604	364	24	38	Atlanta, Ga.	159	64	9	2
Boston, Mass.	180	99	13	13	Baltimore, Md.	244	121	16	3
Bridgeport, Conn.	32	23	1	4	Charlotte, N. C.	52	23	1	- mail -
Cambridge, Mass	29	22	_	8	Jacksonville, Fla	92	49	9	2
Fall River, Mass.	25	14	1	100	Miami, Fla	103	61	3	4
Hartford, Conn.	52	26	2	Jess III S	Norfolk, Va	60	30	1140	4
Lowell, Mass.	22	17	-	3	Richmond, Va	81	37	3	2
Lynn, Mass.	23	15	1	1	Savannah, Ga	37 100	23 79	3	3 2
New Bedford, Mass.	15 40	10 18	2	2	St. Petersburg, Fla	87	45	3	9
New Haven, Conn. Providence, R. I.	44	26		2	Tampa, Fla. Washington, D. C.	122	54	11	5
Somerville, Mass.	7	6	na minima (Car	A manufit	Wilmington, Del.	48	25	1079 THE 19	50
Springfield, Mass.	54	33	1	3	William group, Del.	NOTAL SAN	de mar II. B	K HITCH	Thriftigg.
Waterbury, Conn.	27	20	_	-	EAST SOUTH CENTRAL	696	375	35	25
Worcester, Mass.	54	35	3	2	Birmingham, Ala.	102	56	_	2
	M. J. W. J.	_ voin132	40	ALL WHILE	Chattanooga, Tenn.	50	28	1	6
UDDLE ATLANTIC	2,923	1,637	126	108	Knoxville, Tenn.	34	25	2	2
Albany, N. Y.	35	16	4	7	Louisville, Ky.	125	70	5	2
Allentown, Pa.	17	12	_	4	Memphis, Tenn.	154	77	16	1
Buffalo, N. Y. Camden, N. J.	159 37	93 21	2	5 2	Mobile, Ala.	61	31	>	2
Elizabeth, N. J.	37	20	3	1	Montgomery, Ala.	49	30 58	1 5	6
Erie, Pa.	56	32	1	4	Nashville, Tenn	121	30	,	
Jersey City, N. J.	67	33	3	5	WEST SOUTH CENTRAL	1,234	611	83	25
Newark, N. J.	57	30		5	Austin. Tex.	48	30	2	1
New York City, N. Y**	1,473	830	56	52	Baton Rouge, La.	36	15	4	1
Paterson, N. J.	48	27	1.3	HIVE HEST	Corpus Christi, Tex.	32	12	3	
rniladelphia, Pa.	397	222	24	4	Dallas, Tex.	163	60	21	5
rittsburgh, Pa.	168	85	8	7	El Paso, Tex.	59	31	8	2
Reading, Pa.	44	29	_ 1 -	2	Fort Worth, Tex.	89	51	6	2
Rochester, N. Y.	116	60	9	6	Houston, Tex.	230	99	8	2
ochenectady, N. Y.	22	13		7	Little Rock, Ark	54	33	2	-
Scranton, Pa.	30	19	4	1	New Orleans, La	161	90	8	1
Syracuse, N. Y.	67	38 22	4	2	Oklahoma City, Okla.**	88	47	6	1
Trenton, N. J.	39 24	17	4	1 2	San Antonio, Tex	128	66	5	3
Utica, N. Y. Yonkers, N. Y.	34	18	2	4	Shreveport, La	57 89	31 46	5	3
	April -	firs land	-		Tulsa, Okla.	0,	12 212		The same
AST NORTH CENTRAL	2,471	1,386	120	61	MOUNTAIN	477	257	33	19
Auton, Ohio	64	32	2	_	Albuquerque, N. Mex.	66	32	5	5
Canton, Ohio	35	20	2	3	Colorado Springs, Colo	29	17	G-0 (9.15)	3
Chicago, III.	666	352	35	14	Denver, Colo.	128	70	8	5
Uncinnati, Ohio	151	99	8	5	Ogden, Utah	19	10	1	1
Cleveland, Ohio	189	97	7	2	Phoenix, Ariz.	109	59	9	-
Columbus, Ohio Dayton, Ohio	1 36	78	6	3	Pueblo, Colo.	21	12	Section 1	3
Detroit Mil	123	78	4	5	Salt Lake City, Utah	39	18	6	2
Detroit, Mich. Evansville, Ind.	345	175	25	7	Tucson, Ariz	66	39	2	
Flint, Mich. **	44	33	-	1	DA CIFIC	1 710	1 065	61	20
Fort Wayne, Ind.	49 45	26 24	4	1 1	PACIFIC	1,718	1,065	64	28
dary, Ind.	9	4	1	1	Fresno, Calif.	56	33	3	1
Grand Rapids Mich	49	32	3	4	Glendale, Calif.	44	29	_	
"Idlanapolis Ind	136	68	7	3	Honolulu, Hawaii	51	27	6	1
"ladison, Wis	26	14	i	1	Long Beach, Calif.	111	71	1	1
Will Waukee, Wis	134	89	3	5	Los Angeles, Calif	597	394	17	9
reoria, III.	32	19	3		Oakland, Calif	62	40	1	35.54
Rockford, III.	42	21	100-	-	Pasadena, Calif	33	24	2	A 35 T F
South Bend, Ind.	42	34	-	4	Portland, Oreg	131	86	3	3
10ledo, Ohio	89	50	3	-	Sacramento, Calif	54	25	4	-4% -
Youngstown, Ohio	65	41	3	1	San Diego, Calif.	132	71	8	2
EST NORTH CENTS	024	505	4.0	22	San Francisco, Calif.	175	102	5	5
Des Moines, Iowa	826	505	48	22	San Jose, Calif	124	31 74	2 8	3
Duluth, Minn.	69 13	11	2	3	Seattle, Wash	47	28	2	3
Kansas City, Kans.	30	11	1	1	Spokane, Wash	40	20	2	
nansas City, Mo	125	88	8	4	Tacoma, Wash	40		ئا ئا	
Ancoln, Nehr	24	16	The last	3	Total	12,134	6,811	589	362
"unneanolis Minn	93	57	4	-		-	+	-	
Olnaha, Nehr	105	66	6	BUSCINES.	Expected Number	12,514	7,098	562	421
Louis, Mo	217	124	18	3	Cumulative Total			1150	
Paul, Minn	87	55	5	5	(includes reported corrections				
Wichita, Kans.	63	30	4	2	for previous weeks)	314,498	184,110	12,273	13,714
		161 - 1			*Mortality data are being collected	from Las V	was. Nev for	possible inclu	sion in this
Las Vegas, Nev.*	11	3	- 1	1 1	table, however, for statistical reas	ons, these data	will be listed	only and not	included in

Estimate based on average percent of divisional total.

EPIDEMIOLOGIC NOTES AND REPORTS TYPHOID FEVER — Georgia

On June 12, 1972, a 48-year-old woman from Dalton, Georgia, was referred to a hospital in Atlanta, Georgia, with a suspected diagnosis of salmonellosis complicated by a heart condition. She had a 4-day history of diarrhea, headache, and fever to 105°F. On admission, physical examination revealed a palpable spleen and liver tenderness. The white blood cell count ranged from 4,000 to 6,000. Several blood cultures grew Salmonella typhi, which was resistant to chloramphenicol, tetracycline, streptomycin, and sulfathiazole. The Widal test revealed an 0 titer of 1:40 and an H titer of 1:160. On June 13, the patient was started on intravenous and oral ampicillin; however, she is still febrile.

Approximately 3 weeks prior to her hospitalization, the patient experienced a diarrheal illness while visiting Mexico City. She was treated with Lomotil and a liquid antibiotic. About 3 years prior to admission, she had cardiac surgery for the replacement of her mitral valve with a prosthetic valve. Her present illness may be complicated by *S. typhi* endocarditis affecting the prosthetic valve.

(Reported by the Witfield County Health Department,

Dalton, Georgia; Dwight W. Lambe, Jr., Ph.D., Chief, Microbiology Section, Clinical Pathology Laboratory, Margaret M. Martin, R.N., Surveillance Officer, Edward R. Dorney, M.D., clinic physician, Jo Ann Mertz, MT (ASCP), Supervisor, Microbiology Laboratory, Sue B. Overman, M.S., Associate in Pathology, Emory University Hospital, Atlanta; and John E. McCroan, Ph.D., State Epidemiologist, Georgia Division of Physical Health.)

Editorial Note

This is the fourth reported case of typhoid fever in travelers from the United States to Mexico and the third one due to the multiply-resistant strain of *S. typhi* associated with the outbreak in central Mexico (MMWR, Vol. 21, Nos. 21 and 23).

ERRATUM, Vol. 21, No. 21, p. 178:

In the article "Typhoid Fever – Mexico," correct the third sentence in the Editorial Note to read: This is the first report of an epidemic caused by a naturally occurring chloramphenicol-resistant strain of S. typhi.

INTERNATIONAL NOTES QUARANTINE MEASURES

3-G-19-08

The following change should be made in the "Supplement – Vaccination Certificate Requirements for International Travel," MMWR, Vol. 20, No. 11:

Australia: In the note concerning cholera, delete: by air.
In the note concerning smallpox, insert: Canada, United States of America.

The Morbidity and Mortality Weekly Report, circulation 28,000, is published by the Center for Disease Control, Atlanta, Ga.

Director, Center for Disease Control Director, Epidemiology Program, CDC Editor, MMWR Managing Editor David J. Sencer, M.D. Philip S. Brachman, M.D. Michael B. Gregg, M.D. Susan J. Dillon

The data in this report are provisional, based on weekly telegraphs to CDC by state health departments. The reporting week concludes at close of business on Friday; compiled data on a national basis are officially released to the public on the succeeding Friday.

In addition to the established procedures for reporting morbidity and mortality, the editor welcomes accounts of interesting outbreaks or case investigations of current interest to health officials.

Address all correspondence to:

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Center for Disease Control Attn: Editor Morbidity and Mortality Weekly Report Atlanta, Georgia 30333

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U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE

HEALTH SERVICES AND MENTAL HEALTH ADMINISTRATION CENTER FOR DISEASE CONTROL ATLANTA, GEORGIA 30333

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